## Alabama Field Operations to Eradicate C. cactorum Populations on Leading Edge

Operaciones de campo para erradicar

<u>C. cactorum</u> del frente de la infestacion

en el estado de Alabama

Joel Floyd
Emergency Planning,
Emergency and Domestic Programs
USDA, APHIS, PPQ
Riverdale, MD



#### Sanitation, Host Removal, Sterile Release









# Overview of *C. cactorum* 2006-2007 Control Activities:

#### Host Removal and Sterile Release



Dauphin Island & Little Dauphin Island, Alabama

Fort Morgan Historic Park & Bon Secour National Wildlife Refuge, Alabama

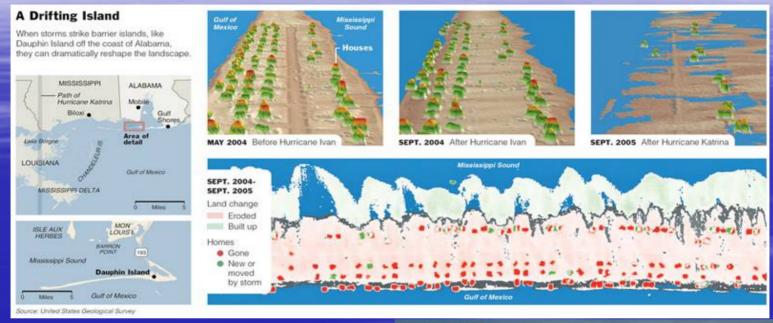
Pensacola Beach, Santa Rosa Island, Florida

ARS Stephen Hight / crew and PPQ- CPHST Gulfport Lab

PPQ Maurice Duffel and PPQ TDY personnel ARS Stephen Hight /crew

**Scheduled for 2007-2008** 

## Dauphin Island and Little Dauphin Island Hurringanes Ivan (2004) and Katrina (2005)







#### Dauphin Island and Little Dauphin Island









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**Scheduled for 2007-2008** 

Ft. Morgan National Historic Landmark and Bon Secour National Wildlife Refuge



### Fort Morgan National Historic Landmark







## Fort Morgan National Historic Landmark

The Battery





#### Mechanized Removal of Host Material





2006: 42 Tons ( 38 metric tons)

2007: 50 tons (45 metric tons)



**Hand Removal** 

2006 : 1.9 tons (1.7 metric tons)





## Front End Loader Modification





## Bon Secour National Wildlife Refuge

Below the sea wall



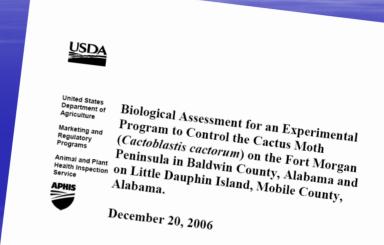


**Hand Removal of Host Material Required** 

#### **Environmental Documentation**

Activities: Sterile Release, hand removal, trapping, and mechanized removal

- Biological Assessment
  - Endangered Species Assessment:
    - Alabama Beach Mouse
      Least Tern
      Piping Plover
      Sea Turtles (3 species)
- F&WS Consultation
- Categorical Exclusion



## Alabama Beach Mouse

- Peromyscus polionotus ammobates
- **Federally Listed Endangered Species**
- **Critical Habitat**













Source:

US Fish & Wildlife Service

## Fort Morgan Environmental Issues

Alabama Beach Mouse Critical Habitat



## Hazards of Host Removal



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**Scheduled for 2007-2008** 

#### Pensacola Beach, Santa Rosa Island, Florida

- Next Area for Control Activities
  - Residential Area was leading edge in 2004





## Severely Affected by Hurricanes

**-** 2004

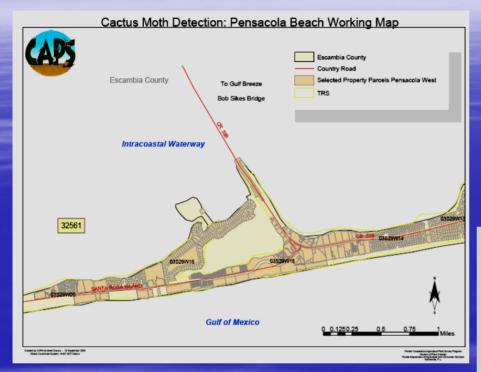
After Hurricane Ivan



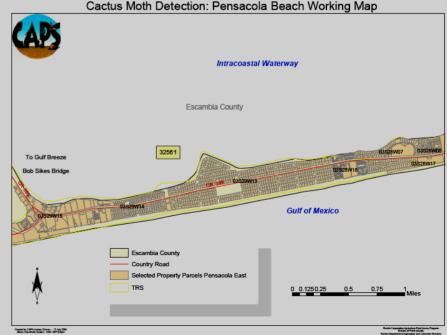




#### Santa Rosa Island, Pensacola Beach



Mapping of residential areas and Opuntia locations



Goal: Remove host from population to allow the <u>Sterile Insect Technique</u> work more effectively

Residential host removal, with permission, is voluntary.